

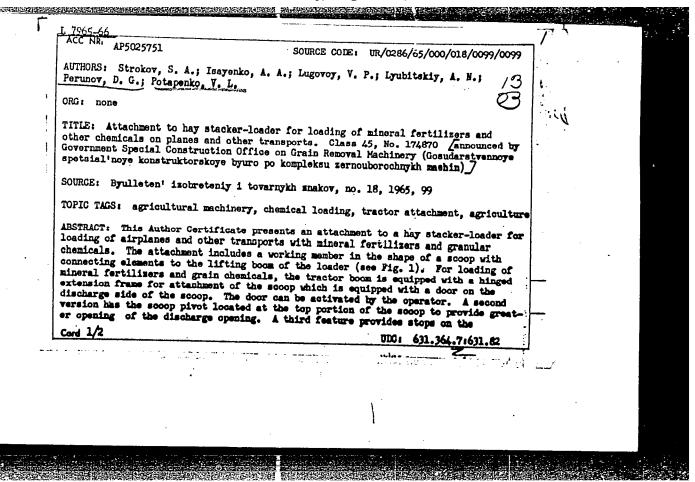
POTAPENKO, V. I.

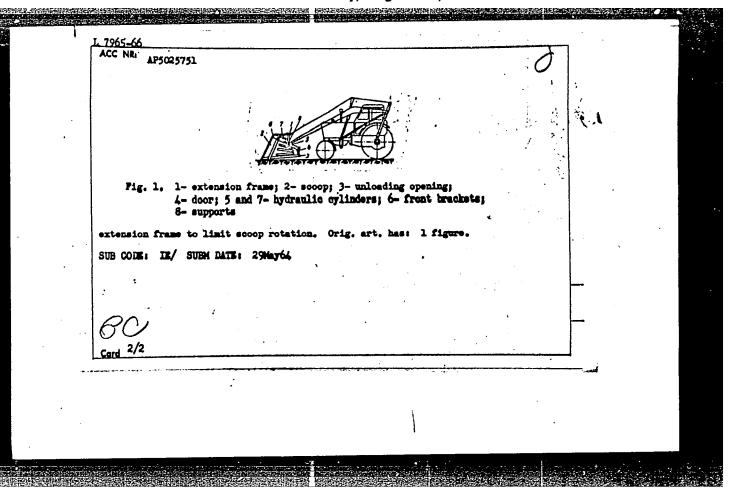
Potapenko, V. I. "The rare phenomenon of the original indescence of Clouds," Trudy Georgr. o-va Gruz. SSR, Vol I-II, 1949, p. 65
Sc: U-52hl, 17 December 1953, (Letopis 'Zhurnal 'nykh Staney, No. 26, 1/h/)

POTAPENKO, V. I.

POTAPENKO, V. I. "The geomorphological properties of the central portion of the Stavronol' up ands", Shormik trudov In-ta (Stavrop. gor. ped. in-t), Issue 2, 1946, p. 71-68.

SO: U-30h2, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 7. 19h9).





POTAPENKO, V. S., inzh.

Automatic line for machining relay bars. Mashinostroenie no.5: 27-28 S-0 '62. (MIRA 16:1)

1. Kiyevskiy zavod rele i avtomatiki.

(Kiev-Electric equipment industry-Equipment and supplies)

POTAPENKO, V.V.; RUSAKOV, V.P.

System of mining thick coal seams with rod bolting. Kolyme
21 no.2:21-25 F '59. (MIRA 12:7)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut zolota i redkikh
metallov.

(Coal mines and mining) (Mine roof bolting)

POTAPENKO, Aladimir Vasillyevich; LUERY, Konstantin Ivanovich;
GUSAKOVSKAYA, C.R., red.

[Improving the underground mining of sands] Sovershenstvovanie podzemnoi dobychi peskov. Magadan, Magadanskoe knizhnoe iza-vo, 1964. 99 p. (MIRA 17:10)

POTAFENKO, V.V.

Min Higher Education USSR. Noscow Inst of Nonferrous Metals and Gold imeni M.I. Kalinin. Moscow 1956

FOTAPENKO, V.V. -"The use of continuous pouring to control the over-burden in underground working of permafrost placer." Min Higher Education USCR. Moscow Inst. of Nonferrous Metals and Gold imeni M.I. Kalinin. Moscow, 1956. (Dissertation for the Degree of Candidate in Technical Sciences)

SO: Knizhnaya Letopis', No. 20, 1956

L 23216-66 EWT(d)/EWP(k)/EWP(1)ACC NR: AP6013582 SOURCE CODE: UR/0144/65/000/010/1181/1182 AUTHOR: Aviloy-Karnaukhov, B. N.; Bogush, A. G.; Gikis, A. F.; Drozdov, A. D.; Malov, D. I.; Sinel'nikov, Ye. M.; Brusentsov, L. V.; Denisov, A. A.; Pal'shau, M. V.; Polyakov, B. A.; Chernyavskiy, F. I.; Burok, V. S.; Gordeyev, V. I.; Kazhdan, A. E.; Kovalev, V. Ye.; Kurennyy, E. G.; Potapenko, V. Ya. ORG: none TITIE: Professor G. M. Kayalov on the occasion of his 60th birthday and 37 years of pedagogical activities SOURCE: Izvestiya vysshikh uchebnykh zavedeniy. Elektromekhanika, no. 10, 1965, 1181-1182 TOPIC TAGS: electric engineering personnel, academic personnel Doctor of Engineering Sciences, Professor of RIIZhT ABSTRACT: Rostovskiy institut inzhenerov zheleznodorozhnogo transporta; Rostov Institute of Railroad Engineers7. Georgiy Mikhaylovich KAYALOV was born on 26 September 60 years ago. He began his working career as a standby electrical construction worker at the Novorossiysk cement factory. In 1929 he graduated from the Novocherkassk Polytechnical Institute, and between 1928 and 1947 worked in the designing section of the "Slektroprom" trust. Card 1/2

L 23216-66 ACC NR: AP6013582

sequently, he joined the Rostov department of the GPI /Gosudarstvennyy proyektnyy institut; State Designing Institute/ "Tyazhpromelektro-proyekt" where he advanced from a technician of the designing department to its chief engineer. From 1933 to 1962 he was docent of the department of electrification of industrial enterprises of the NPI /Novocherkasskiy politekhnicheskiy institut imeni Sergo Ordzhonikidze; Novocherkassk Politechnic Institute im. Sergo Ordzhonikidze/; he taught as professor until 1965 and presently is a professor of the RIIZhT. He published more than 70 scientific works, including studies of flywheel-containing electric motors, investigations of electrical loads of industrial enterprises, analyses of basic features of real load graphs, (including their probabilistic modeling), proposals for peak load calculation methods (based on the theory of mass servicing) and developments of methods for the calculation of extremal loads of heavy consumers, for the study of random graphs of reactive loads, for the evaluation of electric load fluctuations, and the like. G. M. KAYALOV was also active in the Party, professional, and scientific organizations. He is a holder of the "For Outstanding Work During the Great Patriotic War of 1941-1945 gg." medal and the "Badge of Honor"

decoration. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 09, 05 / SUBM DATE: none

Card 2/2 28

GEBLER, I.V.; SMOL'YANHEOV, S.I.; POTAPERRO, V.Ye.; RGSOLAFOV, V.I.

Effect of the additions of iron ore and fluxes on the proporties of peat as a metallurgical fuel. Izv.TPI 111:36-90 '61.

(Poat) (Iron ore) (Fuel)

(Poat) (Fuel)

POTAPENKO,YA. I.

"Quality of Grape Yield As Affected By Accelerated

Devolopment", ibid., 24, No. 8, 1939. Michurin Central

Genetic Lab.; Michurinsk. cl939-.

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POTAPENKO, YA [.]

23458 I. Kul'tura vinograda v sredney i tsentral'noy zonakh SSSR. Vinodeliye i vinogradarstwo SSSR, 1949, No. 7, c. 12-17

SO: LETOPIS' NO. 31, 1949
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- 1. POTAPENKO, YA. I.
- 2. USSR (600)
- 4. Agriculture
- 7. Discovery of new improved species of grapes. Rostov-na-Donu, 1952

9. Monthly List of Russian Accessions, Library of Congress. February, 1953. Unclassified.

LUKYANCV, A. D., LAZAREWSKIY, M. A., Authors POTAPENKO, YA. I.,

Potapenko, Ya. I.

"Viticulture," Reviewed by M. A. Grachev, Sad i og., No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, Cctober 1952. Unclassified.

Card : 1/1

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001

M-8

COUNTRY

CATEGORY

ABS. JOUR.: RZBiol., No. //, 1958, No. 87265

: Potapenko, Ya. I. AUTHOR

INST.

: beientific Work on Viniculture. TITLE

ORIG. PUB. : Dad i ogorod, 1957, No 11, 40-44

: Report of advances in development of ABSTRACT viniculture in the MosR in comparison with the pre-revolutionary period. Brief review of the work of the beientific Research Institute of Viniculture and Wine Production of RSFSR, considered by individual zones.

CARD://

<u>i 6518-66</u> EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(k)/EWP(z)/EWP(b)/EWA(c) ACC NR: AP5024862 MJW/JD/HW SOURCE CODE: UR/0136/65/000/010/0075/0079 AUTHOR:

Kaganovich, I. N.; Potapenko, Yu. I.; Igumenshchev, Ye. D. 14,55 ORG: none

Thermomechanical treatment of the VT14 alloy forging TITLE:

SOURCE: Tsvetnyye metally, no. 10, 1965, 75-79

TOPIC TAGS: titanium, titanium alloy, aluminum containing alloy, molybdenum con-. taining alloy, vanadium containing alloy, alloy forging, thermomechanical treatment, taining alloy, vanadium containing arroy, arroy respects, alloy thermomechanical treatment, alloy property/VT14 alloy

ABSTRACT: The possibility of lot producing VT14 reproducible mechanical properties by applying thermomechanical treatment (TMT) has been investigated. Simple and intricately shaped specimens with a maximum thickness of 40 mm (VT14 alloy hardens to a depth of 15 mm) were die forged with reductions of 22-64% and brine quenched. It was found that TMT improves mechanical properties, especially ductility; and the reproducibility of the characteristics of elongation, reduction of area, and notch toughness. This improvement appears to be the result of the dispersion of structural components and of a great number of sliding planes formed in the process of deformation and uniformly distributed in the metal. It was found advisable to keep to a minimum the number of hammer blows so as to maintain a sufficiently high temperature of parts at the end of forging. From this viewpoint,

0901 1703

nw

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-0051BR00

SHEVAKIN, Yu. F., doktor tekhn. nauk; RUSINOVICH, Yu. I., inzh.; POTAPENKO, Yu. I., inzh.

Extrusion of a pipe billet of titanium and its alloys. Shor. Inst. stali i splav. no.40:443-450 162.

(MIRA 16:1)

(Extrusion(Metals)) (Pipe, Titanium)

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DOBATKIN, V.I.; BOCHVAR, G.A.; POTAPENKO, YW.I.

Comparative investigation of the properties of ingots and shaped titanium alloy products. Izv. vys. ucheb. zav.; tsvet. met 4 no.3:120-124 '61. (MIRA 15:1)

1. Krasnoyarskiy institut tsvetnykh metallov, kafedra metallovedeniya.

(Titanium alloys-Metallography)

POTAPENKO, Ie.I.; LUK'IAHOV, A.D.; LAZAREVSKII, M.A.; DYUZHEV, P.K.;

ZAKHAROVA, Ie.I.; KOVALEV, A.A.; RUZATEV, K.S.; NECHAYEV, L.N.;

BASANI'KO, A.A.; MASHINSKATA, L.P.; ALITEV, A.M.; MANOKHIN, P.A.;

LITVINOV, P.I.; KOROTKOVA, P.I.; ZATISEVA, I.V.F.; GRAMOTENKO, P.M.;

TARROVA, V.N., red.; PROKOF'YEVA, L.N., tekhn.red.

[Viticulture] Vinogradarstvo. Moskva, Gos.izd-vo sel'khoz.lit-ry,

1960. 612 p.

(Viticulture)

USSR/Cultivated Plants - Fruits. Berries.

М.

Abs Jour

: Ref Zhur - Biol., No 10, 1998, 44343

Author

: Potapenko, Ya.I.

Inst

: Scientific Research Institute for Viticulture and Wine-

Making in the Viviculture Regions of Argentine.

Tible

Orig Pub

: Byul mauchno-tokha. Inform. H.-i. in-ta vingradarstva i

vinedeliya, 1957, No 3, 53-59.

Abstract : No abstract.

Card 1/1

SHUL'KIN, S.M., kand.tekhn.nauk; KUSHAKEVICH, S.A., inzh.; POTAPENKO, Yu.

I., inzh.

Characteristics in the technology of the manufacture of hotrolled sheets of 48-073 titanium alloys. Metallurgiia 2:282(MIRA 14:3)

(Rolling (Metalwork))(Titanium alloys)

1555, 1454, 4016

21120 \$/149/61/000/003/003/004 A006/A106

18 1500

AUTHORS:

Dobatkin, V. I., Bochvar, G. A., Potapenko, Yu. I.

TITLE:

Comparative investigation of properties of titanium alloy ingots

and deformed work

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Tsvetnaya metallurgiya, no.

3, 1961, 120 - 124

TEXT: The main causes for the difference of properties in ingots and deformed work are defects of the cast structure. For titanium alloys, however, this difference may also be connected with peculiarities of phase recrystallization. The temperature of recrystallization annealing of titanium is considerably below the temperature of allotropic transformation. During the cooling of an ingot the alloy is inevitably in the β -range and, when passing into the $(\alpha+\beta)$ and the α -range, suffers phase recrystallization at a comparatively slow transformation rate. A deformed alloy, however, does not pass through the β -range during annealing. If pressure working is performed at the β -range temperature, phase recrystallization takes place in both the ingot and the deformed work, but at different transformation rates. The authors attempted to determine which of the aforementioned causes was

Card 1/5

\$/149/61/000/003/003/004 A006/A106

Comparative investigation of properties of ...

decisive, by heating both cast and forged specimens to a eta -range temperature and by subsequent slow or speeded-up cooling. Single and bi-phase alloys were prepared from TrO (TgO) and TrOO(TgOO) sponge. (Composition see table). The content of impurities did not exceed 0.15% Fe, 0.11%Si, 0.07% C, 0.06% N. All the ingots were obtained by double vacuum melting in a water-cooled copper crystallizer. Rods of 12 - 15 mm diameter were forged with a deformation degree not less than 90%; forging was terminated at 800 - 850°C. The blanks were annealed at 750°C. Cast blanks were cut out of the rods on an anodic-mechanical saw. Specimens of 12 mm in diameter or 12 x 60 mm section were heat-treated as follows: heating to 1,100°C for 30 min; ecoling with the furnace at 30 degrees per h to 600°C, or in water at 20°C with subsequent annealing at 750°C for one h. The specimens were then subjected to tensile and impact tests. The following reguliarities were stated in the change of properties: Ultimate strength of forged single-phase alloy specimens was by about 10 kg/mm higher than that of ingots; the difference was 15 kg/mm for bi-phase alloys. Ultimate strength of cast and forged specimens after heating to 1,100°C and slow cooling approached that of the ingot, and that of forged specimens after heating to 1,100°C and high-speed cooling. Elongation and contraction of the cross zections of single-phase alloys varied little, depending on the cooling conditions from the eta-range; in forged specimens they exceed in all states the corresponding

Card 2/5

S/149/61/000/003/003/004 A006/A106

Comparative investigation of properties of ...

values of cast specimens. Elongation, contraction and toughness of forged bi-phase alloy specimens are higher than those of ingots. After heating to 1,100°C and both slow or rapid cooling, the indicated characteristics approach those of an ingot. It can be concluded that the main cause for a reduced ductility of bi-phase alloy ingots is the fact of cooling them from the eta -range i.e., beta embrittlement. The main cause for a reduced strength of single- and bi-phase alloy ingots is the low cooling rate during the transition through the bi-phase $(\alpha + \beta)$ range. The effect of crystallization was less noticeable than that of phase recrystallization, because the defects in the ingots are not strongly developed due to the small range of the liquid-solid state in titanium ingots and low-alloyed titanium alloys. The main difference in the structure of cast and forged specimens treated at 1,100°C is the grain size, which is coarser in cast specimens. The internal structure of the grains in specimens cooled from 1,100°C does not depend on the preliminary treatment but on the cooling rate. The results obtained by the study show the possibility of obtaining the same strength in commercial titanium-alloy castings and in deformed work by proper heat treatment. On the other hand, the results obtained show reduced ductility values of ingots, in particular for bi-phase (lpha + eta) -alloys. Higher ductility and an optimum strength-ductility ratio in annealed state can not be obtained by deformation in the β -range but only by deformation in the bi-phase or the lpha-range.

Card 3/5

Comparative investigation of properties of ...

S/149/61/000/003/003/004

A006/A106

There are 3 tables and 2 figures

ASSOCIATION:

Krasnoyarskiy institut tsvetnykh metallov (Krasnoyarsk Institute of Non-Ferrous Metals) Kafedra metallovedeniya (Department of Metal

SUBMITTED:

August 15, 1960

<u>Table</u>

Chemical composition and transformation temperature of the titanium alloys investi-

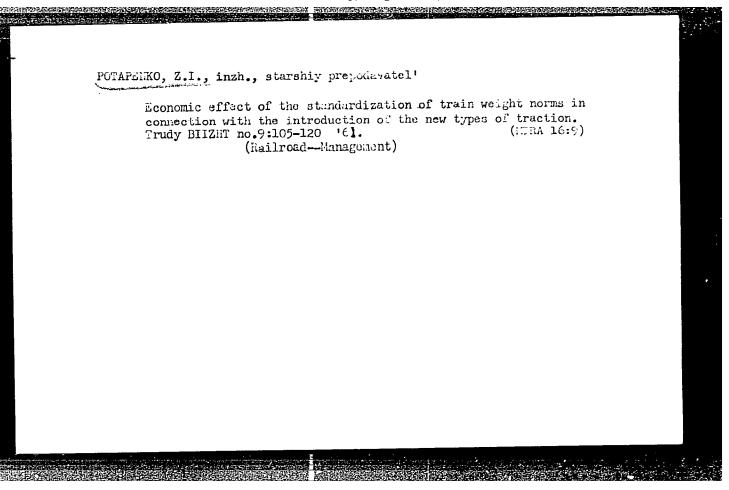
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mm	Al	V	Мо	Sn	Fe	Transformation temperature $\beta \longrightarrow \emptyset$.+ β
BT1 (VT1) 120 BT5 (VT5) 200 BT5-1(VT5-1) 380 Card!/5	4.87 4.69		-	$\beta \longrightarrow \alpha + \beta {}^{\circ}C$ $= 1000$ $= 1000$		

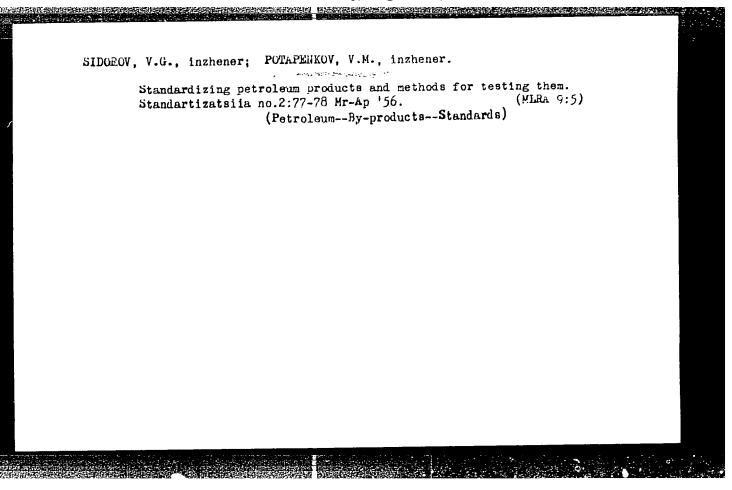
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BT 6 (VT6) TiAlMo TiAlMoFe	380 120 120 200	5.13 5.45 5.35 3.78	4.07 3.55 - -	- 2.69 2.75	- - -	1.5	970 - - 943	
Card 5/5		·						<i>X</i>

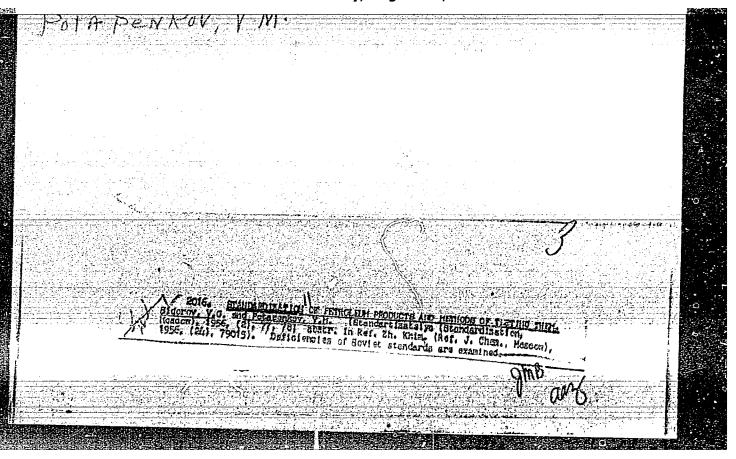
POTAPENKO, Yu.Ya.; MOMOT, S.P.

New data on Cambrian sediments in the Northern Caucasus. Lok1. AN SSSR 164 no.3:648-650 S '65. (MIRA 18:9)

1. Submitted March 9, 1965.







```
AKIMOV, W.T. kern<sup>2</sup> tekhn.nauk (Gomel'); ZAYTSEV, P.F., kand.tekhn.nauk (Gomel');

POTAFENKOL, Za.t., kand.ekonom.nauk (Gomel'); SHUL'FENKO. V.M., inzh.

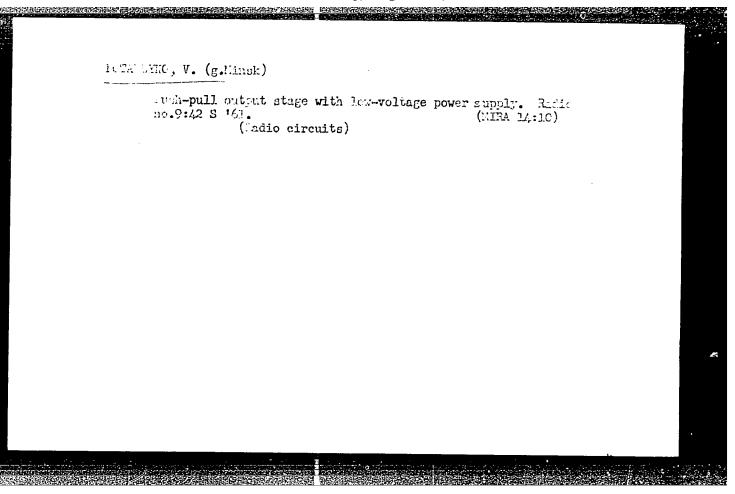
(Gomel'); SALKO, L.I., inzh. (Gomel')

Preparing a railroad line for high-speed traffic. Zhel.dor.transp.

(MIRA 18:10)

47 no.10:55-57 0 '65.
```

	AUTHORS:	1)Gorodskiy, D. A., Frofessor, Doctor SCY/105-58-9-19/34 of Technical Sciences, Volchkov, I. Ye., Engineer 2)Ivenov-Smolenskiy, A. V., Docent, Candidate of Technical 5)Verstennikov, L. P., Docent, Candidate of Technical Sciences, Barlow, W. R.	
	TITLE:	Sciences, Barinov, N. T., Docent, Cindidate of Technical Sciences, Babushkin, H. H., Candidate of Technical Sciences Potapkin, A. I., Engineer (Eshingrad) Dynnaic Models of Power Systems (@ dinasicheskikh modelyakh energosistem)	
	PERIODICAL:	Elektrichestvo, 1958, Br 9, pp 80 - 82 (USSR) Remarks concerning the paper by I.S. Bruk in Elektrichestvo, 1950, Br 2. 1) According to the paper, the methods of using mathematical and physical models are contrary to each other. It is shown here that this is not correct and that a reasonable coordination of the two methods should rather be sized at. 2) The author follows the	
e o o o o d	Gard 1/2	opinion of M.P.Kostenko, Y.A.Yenkow and F.H.Shehedrin, and points out that for investigating transients in electric power systems one should combine the results gained with dynamic models with those obtained by the use of electronio digital computers. 3) The authors ask for a combined use of dynamic models and computers. They show that even in such fields where digital computers prevail, one cannot do without dynamic models. There are 3 Soviet references.	
	ASSOCIATION:	1) Sauchno-isoledovatel ekiy institut elektrotekhnicheskoy promyeshencesti (Scientific Research Institute of Electrical Industry) 2) Boskovskiy energeticheskiy institut (Hoscow Institute for Fower Engineering)	
	Card 2/2		



ULITSKIY, B.Ye., doktor tekhn.nauk; KRAMER, Ye.L., inzh.; POTAPKIN, A.A., inzh.; SAKHAROVA, I.D., inzh.

Three-dimensional calculation of coreless spans. Avt.dor.
25 no.4:18-20 Ap '62.

(Bridges...Design)

(MIRA 15:5)

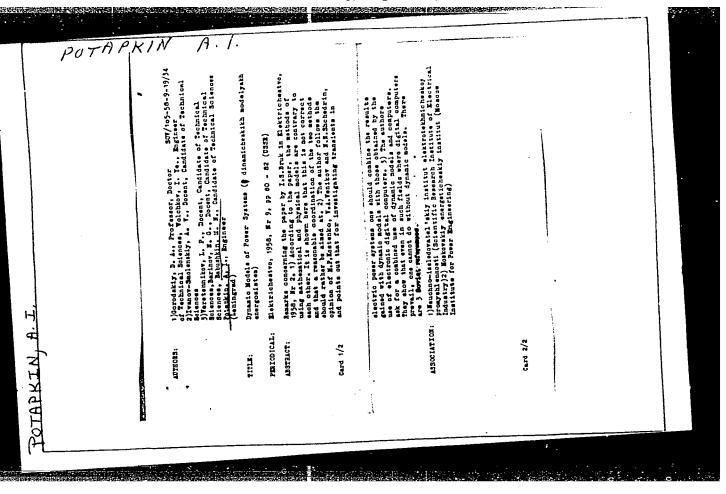
GORODSKIY, D.A., prof., doktor tekhn.nauk; VOLCHKOV, I.Ye., ingh.;
IVANOV-SMCLENSKIY, A.V., dots., kand.tekhn.nauk; VERETHENDIKOV,
L.P., dots., kand.tekhn.nauk (Leningrad); BARIMOV, M.G., dots.,
kand.tekhn.nauk (Leningrad); BABUSHKIN, M.M., kand.tekhn.nauk
(Leningrad); POTAPKIN. A.I., ingh. (Leningrad).

(Uman 11:10)
S '58.

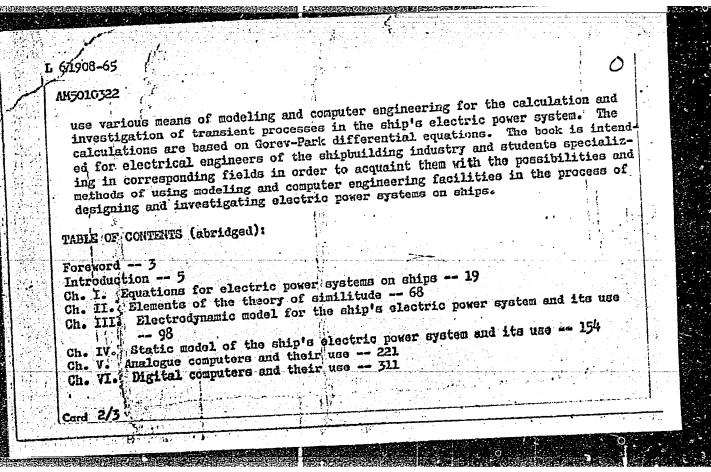
1. Nauchno-issledovatel'skiy institut elektrotekhnicheskoy promyshlennosti (for Gorodskiy, Volchkov). 2. Moskovskiy energeticheskiy
myshlennosti (for Ivanov-Smolenskiy).

(Electric networks)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342"



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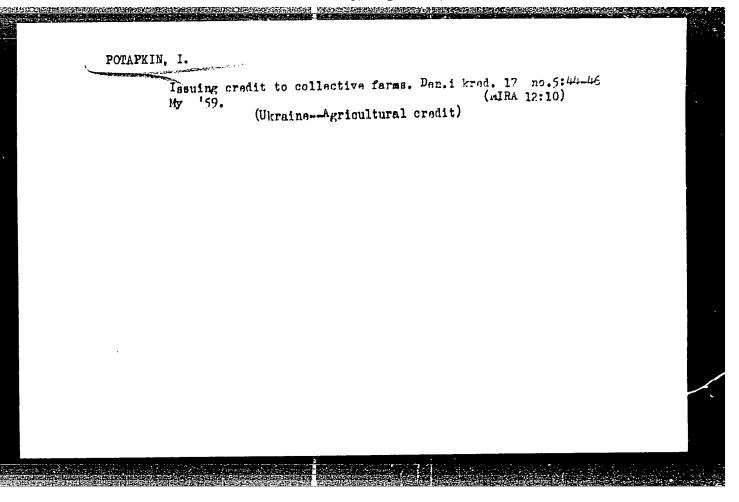
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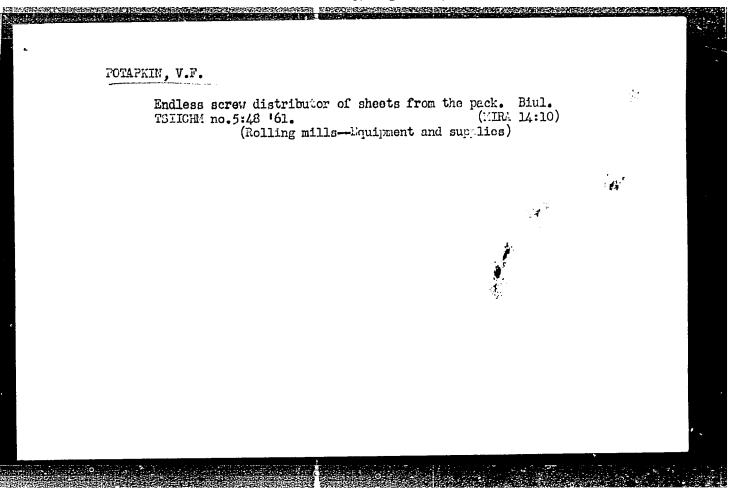
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          Zherdevskim otdeleniyem Gosbanka Tambovskoy oblasti (for Volovodov).
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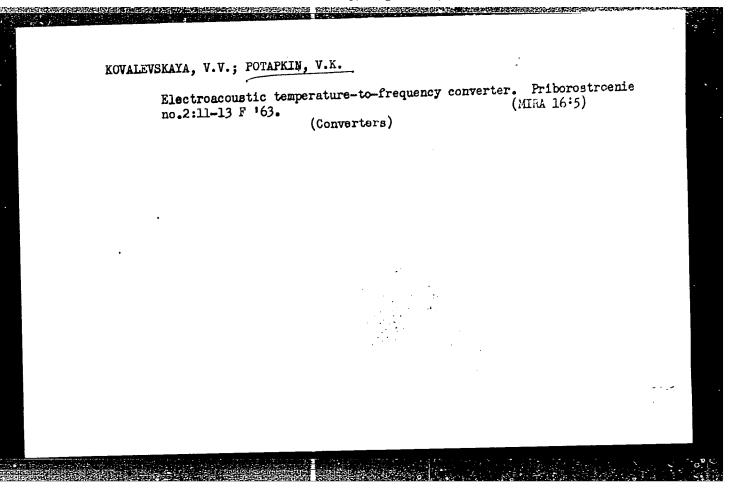
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Forward slip in hot rolling. Yev. vys. ucten. zov., Lean. Let. 7 no.12001477 *64 (Minh 1821) 1. Kranatorskiy venhermiy industrial may institut.



Determining the rolling moment on sheet mills. Izv. vys. ucheb. zav.; chern. met. 8 no.2:81-86 '65. (MIRA 18:2) 1. Kramatorskiy vecherniy industrial'nyy institut.



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Vsesoyuznyy matematicheskiy s"yezd. 3rd, Moscow, 1956

Trudy. t. 4: Kratkoye soderzhaniye sektsionnykh dokladov. Doklady inostrannykh uchenykh (Transactions of the 3rd All-Union Mathematical Conference in Moscow. vol. 4: Summary of Sectional Reports.

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PURPOSE: This book is intended for mathematicians and physicists.

COVERAGE: The book is Volume IV of the Transactions of the Third All-Union Mathematical Conference, held in June and July 1956. The Card 1/34

Transactions of the 3rd All-Union (Cont.)

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book is divided into two main parts. The first part contains summaries of the papers presented by Soviet scientists at the Conference that were not included in the first two volumes. second part contains the text of reports submitted to the editor by non-Soviet scientists. In those cases when the non-Soviet scientist did not submit a copy of his paper to the editor, the title of the paper is cited and, if the paper was printed in a previous volume, reference is made to the appropriate volume. The papers, both Soviet and non-Soviet, cover various topics in number theory, algebra, differential and integral equations, function theory, functional analysis, probability theory, topology, mathematical problems of mechanics and physics, computational mathematics, mathematical logic and the foundations of mathematics, and the

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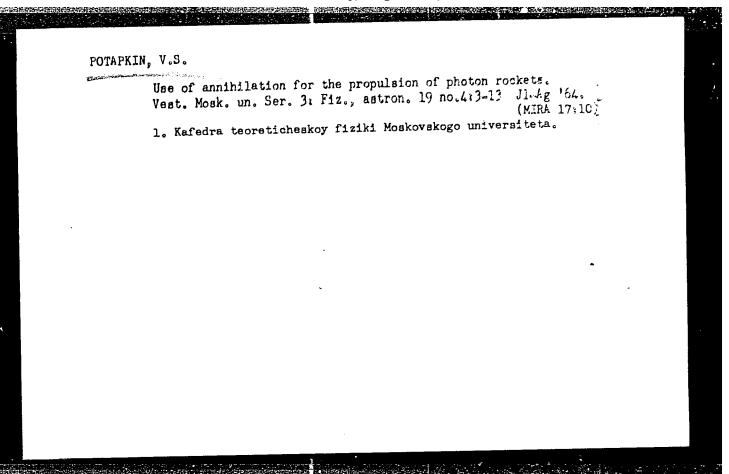
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L 14358-65 ARG/EEO-2/EWG(k)/EWG(j)/EWT(d)/FBD/FSF(h)/FSS-2/EWG(r)/EWT(1)/FBO/ENP(m)/EWT(m)/FS(w)-3/EEG(k)-2/EWG(s)-2/FCS/EWP(f)/EWG(w)/EWP(c)/EWA(d)/EPR/EPA(w)-2/T-2/EWG(a)/EWP(h)/EPA(bb)-2/EWG(c)/FJS(k)/E A(m)-2/FS(b) Pn-4/Pz-6/Po-4/Pd-1/Pac-10/Pe-5/Pq-4/Pac-4/Pf-4/Ps-4/Pac-2/Pi-4/Pw-4 IJP(c)/AFWI/SSD/AEDG(b)/BSD/AFWD(g)/AFETR/AFTG(a)/ESD(6)/88/64/000/004/0003/0013 ACCESSION NR: AP404379 ESD(si) JWA/TT/

AUTHOR: Potapkin, V. S.

TITLE: The use of annihilation in the propulsion of photonic & rockets

SOURCE: Moscow. Universitet Vestnik. Seriya 3. Fizika, astronomiya, no. 4, 1964, 3-13

TOPIC TAGS: deep space rocket, deep space emission, rocket, rocket propulsion, photonic rocket, particle annihilation energy

ABSTRACT: After considering possible propulsion systems for future deep space flights, the author concludes that only the proton-antiproton annihilation principle offers some promise of feasibility as a propulsion agent. A photonic rocket based on this principle will be able to reach 9/10 of the velocity of light with a reasonable mass ratio of 0.23. A satisfactory model of nucleon-antinucleon annihilation suitable for propulsion purposes has been obtained by

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L 14358-65 ACCESSION NR: AP4043793

Ya. A. Pomeranch k (DAN SSSR, v. 78, 1951, p. 889). One of the problems occurring in this situation is the decay of " mesons. The neutral products of the reaction are expected to contribute to the thrust through a series of successive scatterings in which momentum is transmitted from one particle to another. However, the photons resulting from the meson decay reaction will be much too energetic for the rocket nozzle material. Consequently, it is expected that the nozzle of the rocket will be made of heavy metal-derived plasma contained in a strong magnetic field. Another basic problem is focusing the generated beam. Charged particles can be focused directly by electric and magnetic fields. The latter can be of the order of 105 oe, which is quite achievable by current methods. antiprotons would be injected from the circumference of the nozzle at a small angle to the rocket axis while the protons would be supplied from the heat of the rocket. This configuration would make it possible bater to assume a ram jet mode of operation. The n-mesons would thus be directed along the axis of the rocket while the π^+ mesons would fly towards the walls of the nozzle. The confining

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L 14358-65 ACCESSION NR: AP4043793 2

electric field should thus be positive and should extend to a small distance within the nozzle. The magnetic field will also be axially symmetric and will decrease away from the axis of the rocket. "In conclusion the author thanks Prof. K. P. Stanyukovich and M. I. Kiselev who made valuable remarks in evaluating the paper." Orig. art. has: 22 equations.

ASSOCIATION: Kafedra teoreticheskoy fiziki (Theoretical Physics Department)

SUBMITTED: 27May63

ENCL: 00

SUB CODE: SV, NP

NO REF SOV: 007

OTHER: 010

Card 3/3

SNEGOVSKIY, F.P., kand.tekhn.nauk; POTAPKINA, N.N., inzh.

Performance of capron bearings at high speeds and loads. Mashinpstroenie no.2:90-92 Mr-Ap '62.

1. Nauchno-issledovatel'skiy i proyektno-tekhnologicheskiy institut mashinostroyeniya, g. Kramatorsk.

(Plastic bearings--Testing)

POTAPKOV, N. A., Cand Phys-Math Sci -- (diss) "Spin-wave theory of magnetic anisotropy." Mos, Pub House Acad Sci USSR, 1958. 5 pp (Acad Sci USSR, Math Inst im V. A. Steklov), 130 copies (KL, 16-58, 116)

-9-

POTAPKOV. N. A.

20-6-12/47

AUTHOR:

Potapkov, N. A.

TITLE:

Concerning the Theory of the Anisotropy of Cubic Crystals (X teorii anizotropii kubicheskikh kristallov).

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 117, Nr 6, pp. 965-966 (USSN)

ABSTRACT:

The present paper takes into account the spin wave interaction for anisotropic ferromagnetics with cubic symmetry according to Dyson's method (reference 3). First the Hamiltonian of the system is given. In the case of an arbitrary direction of the outer magnetic field the direction of the magnetization vector does not agree with the direction of the crystallographic axes and the Hamiltonian is expediently related to another coordinate system (z-axis in the direction of the magnetization vector). Transformation formulae for the operators occurring in this Hamiltonian s are given. Then expressions for the ground state and the excited state of the system are written down. The nonorthogonality of these excited states causes an interaction between the spin waves which is here designated as kinematic interaction. Then the energy-operator & in the ideal spin wave model is written down. The third term of & describes the scattering of two spin waves. The energy operator also contains terms which describe the scattering of 3 and 4 spin waves, but they are omitted in the calculation of

Card 1/2

Concerning the Theory of the Anisotropy of Cubic Crystals, 20-6-12/47

the free energy. Finally the expression obtained for the free energy is discussed. There are 3 references, 2 of which are Slavic.

AESOCIATION: Mathematical Institute imeni V. A. Steklov AE USSR (Matematiches-

kiy institut im. V. A. Steklova Akademii nauk SSSR).

August 22, 1957, by N. N. Bogolyubov, Academician PRESENTED:

EUBLITTED: August 19, 1957

AVAILABLE: Library of Congress

Card 2/2

20-2-17/60

. On the Theory of the Anisotropy of Ferromagnetic Mono-Crystals

of Dyson, the author shows the sum of states Z as an ideal spin-wave model, in which a harmonic oscillator is linked to each point of the lattice. The operators are described by means of the operators of formation and of destruction. Also for the complete set of the orthogonal and normalized states of an ideal system a formula is given. The sum of states also is written down for a certain ideal model. The sums are computed by the method of the Feynman-Graphs. For the free energy per one free atom, a term is written down explicitly. The small amount of the dynamic interaction shows that the spin wave theory can be used for that team perature range, which here is examined. There are 5 laft. rences, 3 of which are Slavic.

ASSOCIATION:

Mathematical Institute imeni V. A. Steklov AN USSR (Mattematicheskiy institut im. V. A. Steklova Akademii nauk 388R) August 8, 1957, by N. N. Bogolyubov, Academician

PRESENTED:

SUBMITTED:

July 29, 1957

AVAILABLE:

Library of Congress

Card 2/2

POTAPKOV, N.A.; TYABLIKOV, S.V.

Contribution to the theory of s-d model. Fiz. tver. tela 2 no.11:
(MIRA 13:12)
2733-2742 N '60.

1. Magnitnaya laboratoriya AN SSSR i Matematicheskiy institut imeni
V.A. Steklova AN SSSR.

(Molecules) (Ferromagnetism)

38101 s/020/62/144/002/006/028 B104/B102

24.4400

>

Potapkov, N. A.

AUTHOR: TITLE:

Hamiltonian of a uniaxial ferromagnetic

PERIODICAL:

Akademiya nauk SSSR. Doklady, v. 144, no. 2, 1962, 297 - 299

TEXT: The author considers the Hamiltonian

$$\begin{split} \mathcal{H} &= -\mu \sum_{} \langle x | HS_q | x' \rangle_{x_a^+} a_{x'} + \sum_{} \langle x | \sum_{} U_f(q) | x' \rangle_{a_a^+} a_{x'} + \\ &+ \frac{1}{2} \sum_{} \langle x_1 x_2 | \Phi(q_1 - q_3) | x_1 x_2 \rangle_{a_{a_1}^+} a_{a_1}^+ a_{a_2}^+ a_{a_1}^+ + \\ &+ \frac{Z\epsilon^2}{2m^2\epsilon^2} \sum_{} \langle \alpha | \sum_{} \frac{1}{|I - q|^2} L_{Iq} S_q | x' \rangle_{a_a^+} a_{x'} + \\ &+ \frac{\epsilon^2}{2m^2\epsilon^2} \sum_{} \langle \alpha_1 \alpha_2 | \frac{S_1 S_1}{I_{13}^2} - \frac{3(S_1 r_{11})(S_2 r_{12})}{I_{13}^2} | x_1 x_2^+ \rangle_{a_1^+} a_{x_1}^+ a_{x_2}^+ a_{x_3}^- a_{x_4}^-. \end{split}$$

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s/020/62/144/002/006/028 B104/B102

Hamiltonian of a uniaxial.....

of an electron system which takes spin-orbital and spin-spin interactions into account. H is the external magnetic field, a and at are the Fermi operators, and α denotes the quantum numbers. The Hamiltonian is reduced to a suitable form in order to find the energy eigenvalues of the system more easily. For the case where the energy operator receives a contribution from d-electrons only, the quantum states of the electrons are characterized by the number f of lattice points and by the magnetic and spin quantum numbers designated respectively by m and o. After the Hamiltonian has been projected onto the ground state (cf. S. V. Tyablikov, Vestn. Mosk. univ. 3, 35, 1949) it is made to approximate an accuracy of terms of second order. By passing from Fermi to spin operators, the following form is obtained for the Hamiltonian:

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\$/020/62/144/002/006/028 3104/3102

Hamiltonian of a uniaxial....

$$\begin{split} \mathcal{H} &= -\mu \sum_{i} HS_{i} - \frac{1}{2} \sum_{i} I\left(f_{1}m_{1}, f_{2}m_{2}\right) S_{l_{1}m_{1}} S_{l_{2}m_{3}} - \\ &- \frac{1}{2} \sum_{i} \delta I\left(f_{1}m_{1}, f_{2}m_{2}\right) S_{l_{1}m_{1}}^{z} S_{l_{2}m_{3}}^{z} - \\ &- \sum_{i} B_{l_{1}m} \left\{ m - \frac{B_{l_{1}m}}{2} \left[\frac{(2-m)(3+m)}{E_{m+1} - E_{m}} - \frac{(2+m)(3-m)}{E_{m-1} - E_{m}} \right] \right\} S_{l_{1}m}^{z} - \\ &- \frac{1}{4} \sum_{i} B_{l_{1}m}^{z} \left[\frac{(2-m)(3+m)}{E_{m+1} - E_{m}} - \frac{(2+m)(3-m)}{E_{m-1} - E_{m}} \right] (S_{l_{1}m}^{z})^{2}. \end{split}$$

Here,

Card 3/5

Hamiltonian of a uniaxial... $\frac{3/020/62/144/002/006/026}{3104/3102}$ $\delta I = \delta I_1 + \delta I_2 + \delta I_3;$ $\delta I_1 (f_1 m_1, f_2 m_2) =$ $= \frac{e^2}{2m^2c^2} \left\langle f_1 m_1 f_2 m_2 \middle| \frac{S_1 S_2}{r_{12}^3} - \frac{3(S_1 r_{12})(S_2 r_{12})}{r_{12}^5} \middle| f_1 m_1 f_2 m_2 \right\rangle;$ $\delta I_2 (f_1 m_1, f_2 m_2) = \frac{e^2}{2m^2c^2} \left\langle f_1 m_1 f_2 m_2 \middle| \frac{S_1 S_2}{r_{12}^3} - \frac{3(S_1 r_{12})(S_2 r_{12})}{r_{12}^5} \middle| f_2 m_2 f_1 m_1 \right\rangle;$ $\delta I_2 (f_1 m_1 f_2 m_2) =$ $= \left(\frac{Ze^2}{2m^3c^2}\right)^2 \frac{1}{\Delta (f_1 m_1 f_2 m_2)} \left\langle f_1 m_1 \middle| \sum_{1} \frac{L_{1'q}^r}{|f' - q|^2} \middle| f_2 m_2 \right\rangle \left\langle f_2 m_2 \middle| \frac{L_{1'q}^r}{|f' - q|^2} \middle| f_1 m_1 \right\rangle;$ $- \left\langle f_1 m_1 \middle| \sum_{1} \frac{L_{1'q}^r}{|f' - q|^2} \middle| f_2 m_2 \right\rangle \left\langle f_2 m_2 \middle| \frac{L_{1'q}^r}{|f' - q|^2} \middle| f_1 m_1 \right\rangle;$ $B_{lm} = \frac{Ze^2}{2m^2c^2} \left\langle fm \middle| \frac{1}{|f - q|^2} \middle| fm \right\rangle.$

Card 4/5

Hamiltonian of a uniaxial.... 3/020/62/144/002/006/028 . In this Hamiltonian the first term is the Zeeman energy, the second is the electrostatic interaction, the third describes the spin-spin interaction and the spin-orbital exchange interaction; the last two terms describe the spin-orbital interaction averaged over the wave functions

ASSOCIATION: Magnithaya laboratoriya Akademii nauk S3SR (Magnetic Laboratory of the Academy of Sciences USSR) PRESENTED:

December 27, 1961, by N. N. Bogolyubov, Academician SUBMITTED:

November 20, 1961

Card 5/5

20000

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ACCESSION NR: AP4023395

TITLE: Contribution to the theory of ferromagnetic resonance Report, Symposium on Ferromagnetism and Ferroelectricity held in Leningrad 30 May to 5 June 1963/ AUTHOR: Potapkov, N.A.

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.28, no.3, 1964, 495-498 TOPIC TAGS: ferromagnetic resonance, ferromagnetic resonance theory, ferromagnetic

resonance natural width, spin system interaction

ABSTRACT: The natural width of a ferromagnetic resonance line is calculated for a crystal with uniaxial anisotropy. The calculation was undertaken because it is now becoming possible to produce crystals for which the natural width will not be over whelmed by broadening due to impurities and lattice defects. The Hamiltonian for the spin system in an external magnetic field is taken from work of S.V. Tyablikov (Zhur. eksp.i teor.fiz.,20,661,1950). This Hamiltonian includes the interactions within the spin system but not those of the spins with the lattice vibrations. The spin system is assumed to be in thermal equilibrium with the lattice, but the interactions responsible for establishing this equilibrium are not explicitly included. To this Ha-

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ACCESSION NR: AP4023395

miltonian is added the demagnetization energy for an ellipsoidal sample and the interaction energy with the oscillating field. The susceptibility of the system is expressed in terms of the retarded Green's functions of S.V.Tyablikov (Fizika tverdogo tela,2,361,1960; Ibid.2,2009,1960). The defining equation for these Green's functions is taken from a paper of N.N.Bogolyubov and S.V.Tyablikov (Dokl.AN SSSR,126,53,1959). When the time derivatives are eliminated from this equation with the aid of Heisenberg's equation of motion, an open system of coupled equations is obtained for an infinite set of Green's functions. A "random phase" type of approximation is now introduced: the Green's functions involving more than two spin operators are assumed to be linear functions of products of those that involve only two. The resulting closed system of equations is solved, and the corresponding susceptibility is calculated. From the susceptibility, formulas are derived for the resonant frequency and the line width. The numerical value of the line width for typical values of the parameters is not discussed. Orig.art.has: 28 formulas.

ASSOCIATION: Matematicheskiy institut im.V.A.Steklova Akademii nauk SSSR (Mathematical Institute, Academy of Sciences, SSSR)

SUBMITTED: OC

DATE &CQ: 10Apr64

ENCL: 00

SUB CODE: PH

NR REF SOV: 003

OTHER: 001

Card 2/2

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POTAPKOV, N.A.

Magnetic anisotropy of uniaxial ferromagnetics. Dokl. AN SSSR 151 no.3:543-545 Jl '63. (MIRA 16:9)

1. Matematicheskiy institut im. V.A.Steklova AN SSSR. Predstavleno akademikom N.N.Bogolyubovym.

(Ferromagnetism) (Quantum theory)